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/MH/	AA1	_	59,587	08/22/1989	Roizman			04/25/1986
i i	AB1	4,8	79,239	11/07/1989	Daggett et al.			09/09/1986
	AC1	4,9	60,707	10/02/1990	Lacks			08/17/1987
	AD1	5,0	77,214	12/31/1991	Guarino et al.			07/07/1989
	AE1	5,0	82,784	01/21/1992	Chatterjee et al.		,	03/20/1990
	AF1	5,0	98,839	03/24/1992	Polisson			05/10/1990
	AG1	5,1	39,942	08/18/1992	Benner			05/19/1988
	AH1	5,1	47,800	09/15/1992	Hammond et al.			06/08/1990
	Al1	5,1	55,037	10/13/1992	Summers			08/04/1989
	AJ1	5,1	62,222	11/10/1992	Guarino et al.			09/17/1990
	AK1	5,1	69,784	12/08/1992	Summers et al.			09/17/1990
			F	OREIGN PA	TENT DOCUMENTS		·	
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	AL1	wc	94/08598	04/28/1994	WIPO			Ye N
·	AM1	wc	94/12649	06/09/1994	WIPO			Ye N
	AN1	wc	94/28938	12/22/1994	WIPO			Ye N
	AO1	wc	95/00655	01/05/1995	WIPO			Ye N
	AP1	wc	96/17053	06/06/1996	WIPO			Ye.
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	AR	1	Abremski, K., et 261:391-396, Th	<i>al.,</i> "Bacte <u>r</u> io e American S	phage P1 Cre-loxP Site-spec Society of Biological Chemists	ific Reco s, Inc. (19	mbination," (J. Biol. Chem
	AS	1	Ambler, R.P., "T Royal Society (1		of β-lactamases," <i>Phil. Trans</i> .	R. Soc.	Lond. 289:32	21-331, The
V	AT	1	Reactions by Us	e of a Suicida	es of the Topoisomerase II-me al Double-stranded DNA Sub- for Biochemistry and Molecula	strate," J.	Biol. Chem.	266:9203-
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/MH/	AA2	5,179,015	01/12/1993	Wilson et al.			07/23/1990
	AB2	5,192,675	03/09/1993	Chatterjee et al.			01/17/1992
	AC2	5,200,333	04/06/1993	Wilson			03/19/1991
	AD2	5,202,248	04/13/1993	VanCott			11/02/1990
	AE2	5,231,021	07/27/1993	Chatterjee			04/10/1992
	AF2	5,244,805	09/14/1993	Miller			01/17/1991
	AG2	5,248,605	09/28/1993	Chatterjee			12/07/1992
	AH2	5,252,479	10/12/1993	Srivastava			11/08/1991
	Al2	5,304,480	04/19/1994	Chatterjee	<u> </u>	-	03/19/1993
	AJ2	5,312,746	05/17/1994	Longo et al.	1		01/08/1993
	AK2	5,334,526	08/02/1994	Smith et al.			05/28/1993
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	AL2	WO 96/19497	06/27/1996	WIPO			Ye
	AM2	WO 98/56943	12/17/1998	WIPO		·	Ye
	AN2	WO 01/11058	02/15/2001	WIPO			Ye N
	AO						Ye N
	AP						Ye
		OTHER (Include	ling Author	<u> </u> Title, Date, Pertinent Pages	- oto \	L	l N
	AR	450 Sterol 26-H	ydroxylase, a ociety for Bio	, Structure, and Expression of Bile Acid Biosynthetic Enzynchemistry and Molecular Biol	ne," <i>J. Bid</i> logy, Inc.	ol. Chem. 26 (1989)	4:8222-8229
		Recombination I	n Vitro," <i>Mol.</i>	eration of Recombinant Aden Med. 5:224-231, Picower Ins Recombinase, R, Encoded b	stitute Pre	ess (1999)	
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/M	H/.	AA3	5,3	34,575	08/02/1994	Noonan et al.			12/17/1992
		AB3	5,3	48,886	09/20/1994	Lee et al.			09/04/1992
		AC3	5,4	70,740	11/28/1995	Longo et al.			11/04/1993
		AD3	5,5	34,428	07/09/1996	Longo et al.			09/06/1994
		AE3	5,6	72,344	09/30/1997	Kelley et al.			02/10/1994
		AF3	5,6	86,279	11/11/1997	Finer et al.			06/10/1994
		AG3	5,7	41,486	04/21/1998	Pathak et al.			06/06/1995
		АН3	5,7	41,657	04/21/1998	Tsien et al.			03/20/1995
		Al3	5,7	66,891	06/16/1998	Shuman			12/19/1994
		AJ3	5,8	34,256	11/10/1998	Finer et al.			06/11/1993
		АКЗ	5,8	51,808	12/22/1998	Elledge et al.			02/28/1997
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		AP							Yes
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		AR	3	Argos, P., et al.,	"The integras	se family of site-specific rec 133-440, IRL Press Limited	ombinases	: regional si	milarities and
		AS	<u>3</u>	Baek, S-C., et a Human Skin Tis	., "Sustainab sue," <i>Hum</i> . G	le Systemic Delivery via a S ene Ther. 12:1551-1558, M	Single Injec Jary Ann Li	tion of Lentivebert, Inc. (2	virus into 2001)
		AT	<u>3</u>	Bass, B.L., "Dou Cell Press (2000	ble-Stranded	RNA as a Template for Ge	ne Silencir	ng," <i>Cell 101</i>	:235-238,
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/MH/ 	AA4	5,858,740	01/12/1999	Finer et al.			05/10/1995
	AB4	5,888,732	03/30/1999	Hartley et al.			06/07/1996
	AC4	5,888,795	03/30/1999	Hamilton			09/09/1997
	AD4	5,955,604	09/21/1999	Tsien et al.			10/21/1997
i	AE4	5,981,275	11/09/1999	Armentano et al.			04/14/1997
	AF4	5,994,106	11/30/1999	Kovesdi et al.			11/26/1996
	AG4	5,994,136	11/30/1999	Naldini et al.			12/12/1997
	AH4	5,998,205	12/07/1999	Hallenbeck et al.			08/01/1997
	Al4	5,998,208	12/07/1999	Fraefel et al.			01/21/1998
	AJ4	6,013,516	01/11/2000	Verma et al.			10/06/1995
	AK4	6,025,192	02/15/2000	Beach et al.			09/20/1996
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	AR		and 5," Scien	ion of a Common Receptor foce 275:1320-1323, The Ame			
	AS	Berger, J.M., "S Science B.V. (19	tructure of DN	NA topoisomerases,* <i>Biochin</i>	ı. Biophys	s. Acta 1400:	3-18, Elsevie
	AT	Bernstein, E., et (2001)	al., "The rest	t is silence," RNA 7:1509-21,	Cambrid	ge University	/ Press
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/M	<u>H/</u>	AA5	6,03	31,094	02/29/2000	Tsien et al.			07/23/1998
		AB5	6,04	10,174	03/21/2000	Imler et al.			05/27/1994
		AC5	6,05	51,427	04/18/2000	Finer et al.			08/21/1995
		AD5	6,08	36,902	07/11/2000	Zamb et al.			09/09/1994
		AE5	6,11	10,735	08/29/2000	Chartier et al.			12/01/1995
		AF5	6,12	20,764	09/19/2000	Graham et al.			06/07/1995
		AG5	6,12	21,043	09/19/2000	Cochran et al.			08/15/1997
		AH5	6,12	27,175	10/03/2000	Vigne et al.			01/19/1996
		Al5	6,13	33,028	10/17/2000	Imler et al.			09/30/1999
		AJ5	6,13	36,594	10/24/2000	Dalemans et al.			05/16/1995
		AK5	6,14	10,087	10/31/2000	Graham et al.			05/31/1994
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	•	AL							Yes No
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		AN							Yes
		AO							Yes
		AP							Yes
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		AR	5	Bett, A.J., et al.,	"An efficient e	and flexible system for construction of the co	uction of	adenovirus ci. 91:8802-	vectors with 8806, The
	٠	AS	<u>5</u>	Sequences Mod	ulating Early	n, G.F., "Baculovirus gp64 Ge Transcription and Transactiva licrobiology (1991)			
	/	AT	5	Temporal Expres	ssion of the g	n, G.F., "Location, Sequence, p64 Envelope Glycoprotein G osis Virus," <i>Virology 170</i> :537-	ene of th	ne <i>Orgyia ps</i>	eudotsugata
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/MH/	AA6	6,143,557	11/07/2000	Hartley et al.			01/20/1999
	AB6	6,156,497	12/05/2000	Kaleko			04/13/1998
	AC6	6,165,782	12/26/2000	Naldini et al.			03/18/1999
	AD6	6,171,861	01/09/2001	Hartley et al.			01/12/1998
	AE6	6,194,191	02/27/2001	Zhang et al.			11/20/1997
	AF6	6,204,060	03/20/2001	Mehtali et al.			07/24/1996
	AG6	6,218,187	04/17/2001	Finer et al.			03/11/1999
	AH6	6,228,646	05/08/2001	Hardy			03/07/1997
	Al6	6,255,060	07/03/2001	Eberwine et al.			06/22/1999
	AJ6	6,261,807	07/17/2001	Crouzet et al.			08/08/1997
	AK6	6,270,969	08/07/2001	Hartley et al.			01/20/1999
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	AO						Yes No
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	AS 6			rong Enhancer Is Located Up virus," <i>Cell 41</i> :521-530, MIT (f an Immedi	ate Early
	AT 6	Bout, A., et al., " Monkey Airway	Lung Gene T Epithelium," <i>F</i>	herapy: In Vivo Adenovirus-N Human Gene Therapy 5:3-10	Mediated , Mary Ar	Gene transfo in Liebert, In	er to Rhesus c. (1994)
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	AB7	6,2	277,620	08/21/2001	Gwynn et al.			04/26/1999
	AC7	6,2	281,000	08/28/2001	Chartier et al.			12/21/1999
	AD7	6,2	291,162	09/18/2001	Tsien et al.			10/15/1996
	AE7	6,3	300,118	10/09/2001	Chavez et al.			06/07/1995
	AF7	6,3	319,703	11/20/2001	Speck			04/25/1997
	AG7	6,3	323,024	11/27/2001	Tracy et al.			03/27/2000
	AH7	20	02/0007051 A1	01/17/2002	Cheo et al.			12/11/2000
	AI7	6,3	342,224	01/29/2002	Bruck et al.			02/18/2000
	AJ7	6,3	342,229	01/29/2002	O'Hare et al.			08/02/1999
	AK7	6,3	379,967	04/30/2002	Meredith et al.	<u> </u>		03/04/1999
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	AR	Z	Broach, J.R., et 29:227-234, MIT	<i>al.</i> , "Recombi (1982)	ination within the Yeast Plasr	nid 2µ Ci	rcle Is Site-S	pecific," <i>Cell</i>
	AS	Z	Buchschacher Jetherapy for huma (2000)	r., G.L., and V an diseases,"	Vong-Staal, F., "Developmen <i>Blood 95</i> :2499-2504, The Ar	it of lentiv nerican S	riral vectors f Society of He	for gene matology
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/N	лH/	AA8	6,4	410,311	06/25/2002	Cochran et al.			05/09/1997		
	•	AB8	20	02/0094574 A1	07/18/2002	Hartley et al.			05/16/2001		
		AC8	6,4	472,205	10/29/2002	Tsien et al.			01/11/2000		
		AD8	20	02/0192819	12/19/2002	Hartley et al.			07/19/2001		
		AE8	20	03/0100110 A1	05/29/2003	Hartley et al.			11/02/1999		
		AF8	20	03/0186233	10/02/2003	Chesnut et al.			12/07/2001		
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/MH/	AR	9	Campbell, A.M.,	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Campbell, A.M., "Chromosomal Insertion Sites for Phages and Plasmids," <i>J. Bacteriol.</i> 174:7495-7499, American Society for Microbiology (1992)							
/MH/	AS	9	Capone, J.P., et serine tRNA gen	Capone, J.P., et al., "Amber, ochre and opal suppressor tRNA genes derived from a human serine tRNA gene," <i>EMBO J. 4</i> :213-221, IRL Press Limited (1985)							
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	AP							Yes No			
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/MH/	AR	10	Caron, P.R., and Wang, J.C., "Appendix II: Alignment of Primary Sequences of DNA Topoisomerases," <i>Adv. Pharmacol.</i> 29B:271-297, Academic Press, Inc. (1994)								
/MH/	AS	<u>10</u>	Chalfie, M., <i>et al</i> 263:802-805, An	Chalfie, M., et al., "Green Fluorescent Protein as a Marker for Gene Expression," Science 263:802-805, American Association for the Advancement of Science (1994)							
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/MH/	AR	<u>24</u>	Gupta, M., et al., "Eukaryotic DNA topoisomerases I," Biochim. Biophys. Acta 1262:1-14, Elsevier Science B.V. (1995)							
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/MH/	AR	<u>26</u>	Encapsidation o	OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Hearing, P., et al., "Identification of a Repeated Sequence Element Required for Efficient Encapsidation of the Adenovirus Type 5 Chromosome," J. Virol. 61:2555-2558, American Society for Microbiology (1987)						
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/MH/	AT	<u>26</u>	Melanotransferri	in in Lepidopt	ences in the Expression teran and Dipteran Inse demic Press (1999)	n and Lect Cell	ocalization	on of Humar Protein Expn	ession and	
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/MH/	AR	<u>27</u>	Frames Using Te	Heyman, J.A., et al., "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," Genome Research 9:383-392, Cold Spring Harbor Laboratory Press (1999)						
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/MH/	AR	<u>29</u>	Honda, M., et al. acid transfer into	Honda, M., et al., "A replication-deficient adenovirus enhances liposome-mediated nucleic acid transfer into a stable cell line expressing T7 RNA polymerase," J Virol Methods 58:41-58, Elsevier Science B.V. (1996)						
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/MH/	AR	<u>30</u>	Transformed or	Jarvis, D.L., et al., "Immediate-Early baculovirus Vectors for Foreign Gene Expression in Transformed or Infected Insect Cells," <i>Protein Expression and Purification 8</i> :191-203, Academic Press, Inc. (1996)							
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/MH/	AR	46	Mulsant, P., et a Somat. Cell Mol.	i., "Phleom Genet. 14	ycin Resistance as a Dominan :243-252, Plenum Publishing 0	t Selectat Corporatio	ole Marker in In (1988)	CHO Cells,"	
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/MH/	AR	47		ann, T., ed.,	, "Lentiviral Vectors," in Cold Spring Harbor Lab					
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/MH/	AT	47			gene transfer and long-te a neuron-specific promo					
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/MH/	AR	<u>49</u>	Ng, P., et al., "A Vectors," Humar	High-Efficien 1 Gene Ther.	ncy Cre <i>lloxP</i> -Based System fo 10:2667-2672, Mary Ann Liel	or Constru bert, Inc.	uction of Ade (1999)	enoviral		
/MH/	AS	<u>49</u>	Transduction Eff	Park, F., and Kay, M.A., "Modified HIV-1 Based Lentiviral Vectors Have an Effect on Viral Transduction Efficiency and Gene Expression in Vitro and in Vivo," Mol. Ther. 4:164-73, The American Society of Gene Therapy (2001)						
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/MH/	AR	<u>50</u>	Peng, K-W., et al targeted and unta (2001)	I., "Organ dis argeted lentiv	stribution of gene expression a viral vectors," Gene Ther 8:14	after intra 56-1463	venous infus , Nature Pub	sion of the olishing Group		
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/MH/	AR	<u>55</u>	Rosenfeld, M.A. Gene to the Lun Advancement of	g Epitheliun	enovirus-Mediated [·] n in Vivo," <i>Science</i> 991)	Transfer of a 252:431-434	Recomi	binant α1-Ar can Associat	ititrypsin ion for the
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		Page 71 of 77		
	ATTY. DOCKET NO.	APPLICATION NO.		
	0942.5450007/RWE/BJD/SJE	10/622,088		
FORM PTO-1449	FIRST NAMED INVENTOR			
INCORMATION DISCLOSURE STATEMENT	Bennett et al.			
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/MH/	AR	.71	Zylka, M.J., and Mutant of GFP in	Zylka, M.J., and Schnapp, B.J., "Optimized Filter Set and Viewing Conditions for the S65T Mutant of GFP in Living Cells," <i>BioTechniques</i> 21:220-226, Eaton Publishing Co. (1996)						
/MH/	AS	<u>71</u>	NCBI Entrez, Gen	NCBI Entrez, Genbank Report, Accession No. BC000141, Strausberg, R.L., et al., (2002)						
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	ATTY, DOCKET NO.	APPLICATION NO.
	0942.5450007/RWE/BJD/SJE	10/622,088
FORM PTO-1449	FIRST NAMED INVENTOR	
INCORMATION DISCLOSURE STATEMENT	Bennett et al.	
INFORMATION DISCLOSURE STATEMENT	FILING DATE	ART UNIT
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/MH/	AR	<u>72</u>		293A Cell Line Manual, catalog no. R705-07, version B, March 31, 2003, Invitrogen Corporation.					
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/MH/	AR	<u>73</u>	Bac-n-blue™ Man Carlsbad, CA	ual, catalog no	o. K855-01, version M, Decembe	or 10, 2002	, Invitrogen C	orporation,
/MH/	AS	<u>73</u>	Guide To Baculov nos. 10359016, 1 Carlsbad, CA	irus Expressio 0360014, 106	n Systems (BEVS) and Insect C 08016, 11827011, February 27,	ell Culture 2002, Invit	Techniques N rogen Corpora	fanual, catalog ation,
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/MH/	AR	74	pENTR Directiona K2420-20, K2420	I TOPO® CI 480, K2420	oning Kits Manual, catalog no -500, Version B, July 9, 2002,	s. K2400-20, K Invitrogen Cor	2400-480, K2 poration, Carl	400-500, sbad, CA
/MH/	AS	74	pLenti6/V5 Directional TOPO® Cloning Kit Manual, catalog no. K4955-10, version B, Invitrogen Corporation, Carlsbad, CA					
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	ATTY. DOCKET NO.	APPLICATION NO.
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·	AR	75		Purification	System Manual, catalog			-15, version F	-, Invitrogen
/MH/	AS	<u>75</u>	The GATEWAY™ September 22, 20	Technolog	y Instruction Manual, ca en Corporation, Carlsba	talog nos. 1 d, CA	2535-019	, and 12535-0	27, version E,
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		Page 76 of 77
•	ATTY. DOCKET NO.	APPLICATION NO.
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	AR	<u>76</u>	ViraPower™ Lent K4975-00, K4980 Carlsbad, CA	iviral Express -00, K4985-0	sion System Manual, catalo U, and K4990-00, version B	g nos. K4950-00), April 2, 2002, l	, K4960-00, K witrogen Con	4970-00, poration,
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		Page 77 of 77
	ATTY. DOCKET NO.	APPLICATION NO.
	0942.5450007/RWE/BJD/SJE	10/622,088
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INFORMATION DISCLOSURE STATEMENT	FILING DATE	ART UNIT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bennett et al.

Appl. No. 10/622,088

Filed: July 18, 2003

For: Viral Vectors Containing

Recombination Sites

Confirmation No. 1853

Art Unit:

1653

Examiner:

To be assigned

Atty. Docket: 0942.5450007/RWE/BJD/SJE

First Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith, in connection with the above-captioned application.

Copies of documents AG8-AK8, AA9-AK9, AA10-AK10, AA11-AK11, AA12-AK12, AA13-AK13, AA14-AK14 and AA15-AK15 are not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003."

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regards to non-English language documents AN8 and AL9 cited on Form PTO-1449:

Document AN8, PCT Patent Publication No. WO 98/53056, is in the German language.

An unverified English language document related to AN8 is attached as document AJ13.

Document AL9, PCT Patent Publication No. WO 99/25851, is in the Japanese language.

An unverified English language document related to AL9 is attached as document AO9.

The Examiner's attention is directed to the following patents and co-pending U.S. Patent Applications, which are directed to related technical subject matter:

- U.S. Patent Application No. 10/640,422, Cheo et al., filed August 14, 2003 and submitted herewith as document AS180;
- U.S. Application No. 09/498,074, Hartley et al., now U.S. Patent No. 6,720,140, issued April 13, 2004, listed herein as document AJ15; and
- U.S. Patent Application No. 10/680,316, Hartley et al., filed October 8, 2003 published April 1, 2004 as 2004/0063207A1 and submitted herewith as document AK15.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Bennett et al. Appl. No. 10/622,088

Applicants reserve the right to establish the patentability of the claimed invention over

any of the information provided herewith, and/or to prove that this information may not be prior

art, and/or to prove that this information may not be enabling for the teachings purportedly

offered.

This statement should not be construed as a representation that a search has been made,

or that information more material to the examination of the present patent application does not

exist. The Examiner is specifically requested not to rely solely on the material submitted

herewith.

This Information Disclosure Statement is being filed before the mailing date of a first

Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed

Form PTO-1449, and indicate in the official file wrapper of this patent application that the

documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency,

or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono

Attorney for Applicants

Registration No. 42,473

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

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	AK8	4,7	43,546	05/10/1998					02/13/1985
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	AP2	EP	0 220 009	04/29/1987	Europe				Yes
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	AT	<u>78</u>	Required for λ E	xcisive Red	an, S., "Purification of the combination," <i>J. Biol. Che</i> d Molecular Biology (198	em. 257(
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FIRST NAMED INVENTOR
Bennett et al.

FILING DATE
July 18, 2003

APPLICATION NO.
10/622,088

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	AL3	EP	0 300 422	01/25/1989	Europe			Ye N			
	AM3	wo	90/11375	10/04/1990	WIPO			Ye N			
	AN3	wo	91/02801	03/07/1991	WIPO			Ye N			
	AO3	EP	0 427 074	05/15/1991	Europe	1		Yes No			
	AP3	WO 91/09957		07/11/1991	WIPO			Yes			
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	Al10	5,658,772	08/19/1997	Odell et al.	<u> </u>		07/27/1994		
	AJ10	5,677,170	10/14/1997	Devine et al.			03/02/1994		
	AK10	5,677,177	10/14/1997	Wahl et al.			06/07/1995		
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
	AL4	WO 91/16427	10/31/1991	WIPO			Yes No		
	AM4	WO 92/15694	09/17/1992	WIPO ·			Yes No		
	AN4	WO 92/20791	11/26/1992 12/23/1992	WIPO			Yes No Yes No		
	AO4	WO 92/22650		WIPO					
	AP4	EP 0 542 466 A2	05/19/1993	Europe			Yes No		
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	АТ		ith Mutated Ta	etion of the FLP Recombinase arget Sequences," <i>Mol. Cell. E</i> (6)					
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1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5, 1 5,	OCUMENT NUMBER 710,248 723,765 728,551 733,733 733,743 744,336 776,449 801,030 814,300 830,707 837,242 F OCUMENT NUMBER 70 93/15191 70 93/19172	DATE 01/20/1998 03/03/1998 03/31/1998 03/31/1998 03/31/1998 04/28/1998 07/07/1998 09/01/1998 11/03/1998 11/17/1998 DATE 08/05/1993 09/30/1993	NAME Grose Oliver et al. Devine et al. Auerbach Johnson et al. Hodges et al. Baum et al. McVey et al. Scott et al. Bushman Holliger et al. TENT DOCUMENTS COUNTRY WIPO	CLASS	SUB-CLASS SUB-CLASS	FILING DATE 07/29/1996 06/07/1995 03/02/1995 02/01/1996 06/10/1996 03/08/1996 09/20/1996 09/01/1995 03/03/1995 06/05/1995 05/14/1996 TRANSLATION Yes	
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	A 2,141,412	02/17/1994	Canada			Yes No	
AO5 WO 94		02/17/1994	WIPO			Yes No	
_ w	/O 94/09127	04/28/1994	WIPO			Yes No	
	OTHER (Includ	ling Author,	Title, Date, Pertinent Pages	, etc.)	•		
81	10429, National Academy of Sciences (September 2000) Angrand, P.O., et al., "Inducible expression based on regulated recombination: a sin						
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AT 81 Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Con							
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	81 81	Angelastro, J.M serial analysis of 10429, National Angrand, P.O., evector strategy for Oxford University Expression, J. Street Considered, whether or	Angelastro, J.M., et al., "Identification is in or serial analysis of gene express 10429, National Academy of Angrand, P.O., et al., "Inducitivector strategy for stable export Oxford University Press (July Anton, M., and Graham, F.L., Vector Expressing the Cre Reference considered, whether or not citation is in or serial analysis."	Angelastro, J.M., et al., "Identification of diverse nerve growserial analysis of gene expression (SAGE) profiling," Proc. 10429, National Academy of Sciences (September 2000) Angrand, P.O., et al., "Inducible expression based on regulative vector strategy for stable expression in cultured cells," Nucleon Oxford University Press (July 1998) Anton, M., and Graham, F.L., "Site-Specific Recombination Vector Expressing the Cre Recombinase Protein: a Molecular Expression," J. Virol. 69:4600-4606, American Society for expression, "J. Virol. 69:4600-4606, American Society for expression," J. Virol. 69:4600-4606, American Society for expression, "J. Virol. 69:4600-4606, American Society for expression," J. Virol. 69:4600-4606, American Society for expression, "J. Vi	Serial analysis of gene expression (SAGE) profiling," Proc. Natl. Acc. 10429, National Academy of Sciences (September 2000) Angrand, P.O., et al., "Inducible expression based on regulated receivector strategy for stable expression in cultured cells," Nucl. Acids & Oxford University Press (July 1998) Anton, M., and Graham, F.L., "Site-Specific Recombination Mediate Vector Expressing the Cre Recombinase Protein: a Molecular Swite Expression," J. Virol. 69:4600-4606, American Society for Microbiol DATE CO	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated g serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 10429, National Academy of Sciences (September 2000) Angrand, P.O., et al., "Inducible expression based on regulated recombination: evector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263 Oxford University Press (July 1998) Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Ade	

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NITIAL	41.11	-		CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/N	1H/	AA12	5,8	37,458	11/17/1998	Minshull et al.			05/20/1996
		AB12	5,8	43,772	12/01/1998	Devine et al.			11/18/1994
	<u> </u>	AC12	5,8	58,657	01/12/1999	Winter et al.		,	06/07/1995
		AD12	5,8	71,907	02/16/1999	Winter et al.			03/31/1994
		AE12	5,8	74,259	•	Szybalski			11/21/1997
		AF12	5,9	16,804		Bushman			04/17/1998
		AG12	5,9	19,676	07/06/1999	Graham et al.			06/07/1995
		AH12	5,9	28,914	07/27/1999	Leboulch et al.			11/05/1996
		A112	5,9	29,307	07/27/1999	Hodges et al.			12/20/1996
		AJ12	5,9	62,255	10/05/1999	Griffiths et al.			12/05/1994
		AK12 5,9		981,177	11/09/1999	Demirjian et al.			01/25/1995
	FOREIGN PATENT DOCUMENTS								
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		AL6	wo	94/17176	08/04/1994	WIPO		:	Ye:
		AM6	wo	94/18333	08/18/1994	WIPO			Ye:
		AN6	wo	95/00555	01/05/1995				Yes No
		AO6	wo	96/04393	02/19/1996				Yes No
		AP6	WO 96/30498		10/03/1996	WIPO			Yes
				OTHER (Includ	ling Author,	Title, Date, Pertinent Page	s, etc.)		
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		AS	<u>82</u>	Atlung, T., et al., attachment site	method for integration of ge a coli," Gene 107:11-17, Els	ion of genes and gene fusions into the λ 1-17, Elsevier Science (1991)			
		АТ	<u>82</u>	Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in Current Protocols in Molecular Biology, John Wiley & Sons, Inc., Boston, MA, pp. 1.5.3-1.5.4 (1995)					cols in
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EXAMINER	1			U.S. PATE	NT DOCUMENTS	1	r	
NITIAL	DOC		CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
/MH/	AA13	5,9	89,872	11/22/1999	Luo et al.			08/12/1997
[AB13	6,0	10,884	01/04/2000	Griffiths et al.			05/29/1996
	AC13	6,0	40,430	03/21/2000	Stewart			12/26/1995
	AD13	6,0	6,063,627	06/16/2000	McVey et al.			02/25/1998
	AE13	6,066,778	66,778	05/23/2000 06/27/2000 05/01/2001	Ginsburg, et al.			11/06/1996
	AF13	6,0	80,576		Zambrowicz, et al.			04/08/1998
	AG13	3 6,2	25,121		Savakis, C. et al.			04/27/1998
	AH13	6,2	62,341	07/17/2001	Baszczynski et al.			11/17/1998
	Al13	6,2	71,436	08/07/2001	Piedrahita et al.			10/10/1997
	AJ13	6,3	31,397	12/18/2001	Schindelhauer et al.			05/11/2000
	AK13	6,3	61,972	03/26/2002	Harrington et al.	Ì		01/10/2000
			F	OREIGN PA	TENT DOCUMENTS			<u> </u>
EXAMINER INITIAL		DO	CUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATIO
	AL7	wc	96/40722	12/19/1996	WIPO			Ye N
	AM7	wo	96/40724	12/19/1996	WIPO			Ye N
	AN7	wo	97/06265	02/20/1997	WIPO			Ye N
	A07	wc	97/09436	03/13/1997	WIPO .			Ye N
	AP7	wc	97/25446	07/17/1997	WIPO		i	Ye N
			OTHER (Includ	ing Author,	Title, Date, Pertinent Pages	, etc.)		
	AR	<u>83</u>		Ausubel, F.M., <i>et al.</i> , "Mutagenesis by the Polymerase Chain reaction," in <i>Cur</i> in Molecular Biology, John Wiley & Sons, Inc., Boston, MA, pp. 8.5.1-8.5.9 (19				
	AS.	<u>83</u>	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-med Excision (VEX) The trfA Gene of Promiscuous Plasmid RK2 is Essential for Rep Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press (1993)					
	AT	<u>83</u>	Babineau, D., et al., "The FLP Protein of the 2-micron Plasmid of Yeast," J. Biol. 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc.					
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		CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
/MH/	AA14	6,36	55,377	04/02/2002	Patten et al.			03/03/2000
	AB14	200	2/0068290 A1	06/06/2002	Yarovinsky			05/31/2001
	AC14	6,4	10,266	06/25/2002	Harrington et al.			01/07/2000
	AD14	6,4	6,410,317 B1 06/25/2002 Farmer	Farmer			07/14/2000	
	AE14 20		2002/0094574 A1	07/18/2002	Hartley et al.			05/16/2001
	AF14	6,43	6,436,707	08/20/2002	Zambrowicz et al.			03/25/1999
	AG14	200	2/0172997 A1	11/21/2002 Hartley et al.	Hartley et al.	-		07/19/2001
	AH14 :		2002/0182731 A1	12/05/2002 Ji et al.	Ji et al.			01/25/2002
	Al14	200	3/0027289 A1	02/06/2003	Farmer			04/05/2002
	AJ14	200	3/0027337 A1	02/06/2003	Droge et al.			02/25/2002
	AK14	200	3/0054552 A1	03/20/2003	Hartley et al.			01/30/2002
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	AL8	wc	97/32481	09/12/1997	WIPO			Ye N
	AM8	wc	98/10086	03/12/1998	WIPO ·			Ye
	AN8	wc	98/53056	11/26/1998	WIPO			Ye X N
	AO8	wc	99/10488	03/04/1999	WIPO			Ye N
	AP8	wc	99/21977	05/06/1999	WIPO			Ye.
			OTHER (Includ	ling Author,	Title, Date, Pertinent Pages	s, etc.)		•
	AR į	<u>34</u> .	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Gene Expression," Bio/Technology 2:1045-1049 (1984)					
	AS §	<u>34</u>			ts Cell Cycle Regulators to th Box," <i>Cell 86</i> :263-274, Cell Pi			s Machinery
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AB15 2003/0059900 A1 03/27/2003 Farmer AC15 2003/0064515 A1 04/03/2003 Hartley et al. AD15 2003/0068799 A1 04/10/2003 Hartley et al. AE15 2003/0077804 A1 04/24/2003 Byrd et al. AF15 2003/0124555 A1 07/03/2003 Brasch et al. AG15 2003/0157662 A1 08/21/2003 Gerard et al. AH15 2003/0175970 A1 09/18/2003 Hartley et al. AI15 2004/0053412 A1 03/18/2004 Hartley et al. AJ15 6,720,140 04/13/2004 Hartley et al. AK15 2004/0063207 04/01/2004 Hartley et al. FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE COUNTRY AL9 WO 99/25851 05/27/1999 WIPO	CLASS		01/17/2002 01/30/2002 06/06/2002 04/19/2002 05/21/2002 11/13/2002 11/21/2002 03/26/2003 02/04/2000			
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AO9 EP 1 035 208 09/13/2000 Europe		!	Ye			
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/MH/	AR	111	Guo E et al. "Asymmetric DNA handing in the Cap lay Bailty and all all and all all and all and all and all all all and all all all all all all all all all al					
/MH/	AS	111	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the Cin Recombinase have a Relaxed Topological Specificty," <i>EMBO J.</i> 7:3991-3996, IRL Press Limited (1988)					
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/MH/	AR	112	Hancock, R.E.W Proc. Natl. Acad	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," Proc. Natl. Acad. Sci. USA 97:8856-8861, National Academy of Sciences (August 2000)						
/MH/ ·	AS:	112	Hardy, S., et al., Virol. 71(3):1842	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," <i>J. Virol.</i> 71(3):1842-1849, American Society for Microbiology (1997)						
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INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AA AB AC AD ΑE AF AG AH ΑI **LA** ΑK **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS | SUB-CLASS | TRANSLATION Yes AL No Yes **AM** No Yes AN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Yoon, Y.G., et al., "Cre/loxP-mediated in vivo excision of large segments from yeast genome AR 178 and their amplification based on the 2 µm plasmid-derived system," Gene 223:67-76. /MH/ Elsevier Science (1998) Yoon, H., et al., "SSL1, a Suppressor fo a HIS4 5'-UTR Stem-loop Mutation, is Essential for /MH/ AS 178 Translation Initiation and Affects UV Resistance in Yeast," Genes Dev. 6:2463-2477, Cold Spring Harbor Laboratory Press (1992) York, D., et al., "Simple and efficient generation in vitro of nested deletions and inversions: /MH/ Tn5 intramolecular transposition," Nucl. Acids Res. 26:1927-1933, Oxford University Press AT <u>178</u> (1998)**EXAMINER** DATE CONSIDERED

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